Louan Flammanc

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EDUCATION:

Rochester Institute of Technology (RIT), Rochester, NY

Expected 2026

Bachelor of Science, Software Engineering

Related Courses: Software Dev & Problem Solving, Engineering of Software Subsystems, Web Engineering, Cloud Computing, Software Design for Computing Systems, Software Process & Project Management, Calculus, Discrete Math for Computing, Linear Algebra, Analysis of Algorithms, Statistics

SKILLS:

Programming Languages: Python (SKLearn, Pandas), Java, C, C++, Postgres.

Cybersecurity: ProxMox, AWS (Terraform, CloudWatch, Lambda, EC2, S3), Risk Assessment, CI/CD Pipelines.

Data Analysis: Machine Learning, Deep Learning, Ensemble Models, PyTorch, LaTeX.

Tools: Git, Linux, TMUX, Jupyter Notebooks

PROJECTS:

Honeypot Agent for Dynamic Engagement and Sec., Personal Project

May 2025 - Present

- Cybersecurity system that uses Deep Reinforcement Learning to dynamically deploy and manage SSH honeypots in response to live network threats.
- Designing a DDPG agent in PyTorch to optimize honeypot deployment based on attacker engagement and resource usage.
- Researching a **reward function** combining attacker behavior metrics and operational cost, using real SSH interaction logs for policy learning.
- Building a Flask-based monitoring dashboard showing active honeypots, system status, and real-time visualizations of attacker commands and agent decisions.

Stock Prediction AI, Personal Project

October - December 2024

- Developed a predictive model using a stack ensemble (XGBoost, AdaBoost, Random Forest, Bagging-LSVM) to forecast stock prices based on historical data.
- Achieved an R² of 0.9997 and relative RMSE of 0.0013% on a 33,000-point dataset.
- Integrated Python libraries (**SKLearn**, **Pandas**) for data processing and model evaluation.

Maze-Al, Personal Project

August 2024

- Designed a reinforcement learning agent using Deep Q-Learning in PyTorch to solve randomly generated mazes.
- Optimized the agent's performance through reward shaping and state-action modeling.

NUTRiAPP, Engineering of Software Subsystems

January - April 2023

- Collaborated with a team of 5 to build a nutrition app in Java
- Implemented core features using object-oriented design patterns and domain-driven modeling.
- Presented a **fully functional prototype** that showed off smooth data handling and user interaction.

Theater Ticket Selling Website, Intro to Software Engineering

September 2022 - December 2022

- Collaborated with a team to create a ticketing platform using Spring Boot (REST API) and Angular (frontend), PostgreSQL (Database).
- Gained experience in full-stack development and project management.

WORK EXPERIENCE:

RIT Catering

September 2022 - Present

Attendant

- Managed the distribution of resources for events, making sure that supply planning and inventory tracking were accurate.
- Adapted to fast-paced environments, collaborating with teams to deliver high-quality service.
- Interacted with customers and ensured a positive environment at the events.

ACTIVITIES & INVOLVEMENT:

- Member of the Vulnerability Research Team for RITSEC (RIT Cybersecurity Club).
- Competing in hackathons such as IRSeC 2024, focusing on blue teaming.
- HackTheBox, Ranked #809 Globally